

Advanced Photon Source

User Policies and Procedures

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Issuance of Ionizing Radiation Dosimeters at the APS

Changes made in this revision:

- Format and editorial changes including extraction from the integrated APS User Safety Policies and Procedures (3.1.102, APS document number APS_1258430) to make a stand-alone policy and procedure.
- Reference to specific legacy ESH Manual chapters deleted.

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Policy

Thermoluminescent dosimeters (TLDs) will be regularly issued by Argonne Health Physics to APS personnel/users who *routinely* need to access areas or engage in activities requiring a TLD.

Specifically, TLDs will be regularly issued to APS personnel/users who:

- At least once per calendar quarter must enter any radiologically controlled area that is posted by the Argonne Health Physics Group as *Controlled Area, TLD required for entry*; Note: TLDs are not required for access to the majority of the APS Experiment Hall and the top of the storage ring tunnel;
At least once per calendar quarter engage in activities for which there may be radiation exposure hazards and that, according to Argonne ESH requirements, requires a TLD to be worn (e.g., operation of an analytic x-ray generator); or
Are likely to receive 0.1 rem/year or more from one or more sealed radioactive sources. Note: Typically, wearing a TLD is not required for, and will not be regularly issued for, the handling of exempt sealed source (i.e., a source whose activity is less than the values in 10CFR835 Appendix E).

For those who less frequently require a TLD, a TLD may be obtained from the Main Control Room or the User Office on an as-needed basis.

A person who is not regularly issued a dosimeter may request automatic issuance of TLDs. This request should be made to their Division Director or, in the case of users that are not APS employees, the AES Division Director, and should explain why the dosimetry is sought.

TRAINING REQUIRED

For persons regularly being issued a TLD: Radiation Worker I

FEEDBACK AND IMPROVEMENT

If you are using this procedure and have comments or suggested improvements for it, please go to the [APS Policies and Procedures Comment Form](http://centraldocs.aps.anl.gov/comment_form) * to submit your input to a Procedure Administrator. If you are reviewing this procedure in workflow, your input must be entered in the comment box when you approve or reject the procedure.

Instructions for execution-time modifications to a policy/procedure can be found in the following document: Field Modification of APS Policy/Procedure ([APS 1408152](http://centraldocs.aps.anl.gov/1408152)).

* http://centraldocs.aps.anl.gov/comment_form.php